

SEQUENCE LISTING

<110> Sauter, Margret M.
Lorbiecke, Rene
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gca tgg tac atg gat gat agc gaa gag gac cag agg ctt cct cat cac 158
Ala Trp Tyr Met Asp Asp Ser Glu Glu Asp Gln Arg Leu Pro His His
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cgc gaa ccc aaa gaa ttc att cct gtt gat aag ctt aca gaa cta gga 206
Arg Glu Pro Lys Glu Phe Ile Pro Val Asp Lys Leu Thr Glu Leu Gly
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gta atc agc tgg cgc cta aat cct gat aac tgg gag aat tgc gag aac 254
Val Ile Ser Trp Arg Leu Asn Pro Asp Asn Trp Glu Asn Cys Glu Asn
50 55 60
sta and has ate and and and and and the the tot ate and att tat. 200
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	_			gca Ala 195	_	_	_		tga 200	gggt	tttg	gtt g	ggct	cctç	jc	688
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Ser Trp Arg Leu Asn Pro Asp Asn Trp Glu Asn Cys Glu Asn Leu Lys
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Val Gly Asp Pro Val Trp Thr Pro Tyr Asn Arg Pro His Asp His Leu
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Ser Trp Arg Leu Asn Ala Asp Asp Trp Glu Asn Asp Glu Asn Leu Lys
Lys Ile Arg Glu Ala Arg Gly Tyr Ser Tyr Met Asp Ile Cys Asp Val
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Cys Pro Glu Lys Leu Pro Asn Tyr Glu Ala Lys Leu Lys Asn Phe Phe
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gat Asp	gct Ala 50	gac Asp	aat Asn	tat Tyr	gag Glu	act Thr 55	gat Asp	gag Glu	gag Glu	ttg Leu	aag Lys 60	aaa Lys	att Ile	cgg Arg	gaa Glu	192
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cta Leu	ccg Pro	aat Asn	tac Tyr	gag Glu 85	gag Glu	aaa Lys	atc Ile	aag Lys	aac Asn 90	ttt Phe	ttt Phe	gaa Glu	gaa Glu	cac His 95	ctg Leu	288
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gaa Glu	tat Tyr	gtt Val	gag Glu 180	acg Thr	ttt Phe	gtc Val	aac Asn	gca Ala 185	gat Asp	ggc Gly	gct Ala	ggt Gly	cgt Arg 190	gct Ala	gtt Val	576

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												gat Asp		239
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	_	-	-			_		_	_	-		gat Asp	-	383
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603

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110

115

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Lys Ile Arg Glu Glu Arg Gly Tyr Ser Tyr Met Asp Phe Cys Glu Val

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attgcattca ggttgagtcc caaatgaaag tttcatctcc cgaaatgcag ttccttagat	874
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<211> 187

<212> PRT

<213> Human

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Asp Asp Ala Pro Gly Thr Arg Gly Asn Pro Thr Ala Pro Thr Pro Ala
Ala Gln Cys Ala Gly Ala Ala Arg Leu Gly Val Leu Tyr Trp Lys
Leu Asp Ala Asp Lys Tyr Glu Asn Asp Pro Glu Leu Glu Lys Ile Arq
Arg Glu Arg Asn Tyr Ser Trp Met Asp Ile Ile Thr Ile Cys Lys Asp
                     70
                                         75
Lys Leu Pro Asn Tyr Glu Glu Lys Ile Lys Met Phe Tyr Glu Glu His
Leu His Leu Asp Asp Glu Ile Arg Tyr Ile Leu Asp Gly Ser Gly Tyr
            100
Phe Asp Val Arg Asp Lys Glu Asp Gln Trp Ile Arg Ile Phe Met Glu
                            120
                                                 125
Lys Gly Asp Met Val Thr Leu Pro Ala Gly Ile Tyr His Arg Phe Thr
                        135
                                            140
Val Asp Glu Lys Asn Tyr Thr Lys Ala Met Arg Leu Phe Val Gly Glu
                    150
                                        155
Pro Val Trp Thr Ala Tyr Asn Arg Pro Ala Asp His Phe Glu Ala Arg
Gly Gln Tyr Val Lys Phe Leu Ala Gln Thr Ala
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<212> DNA
<213> Mouse
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<221> CDS
<222> (17)..(556)
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                 Met Val Gln Ala Trp Tyr Met Asp Glu Ser Thr Ala
                                    5
                    1
                                                        10
gac ccg cgg aag ccc cac cgc gca cag ccc gac cgc ccc gtg agc ctg
                                                                   100
Asp Pro Arg Lys Pro His Arg Ala Gln Pro Asp Arg Pro Val Ser Leu
                             20
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gag cag ctg cgc acg ctc gga gtg ctc tat tgg aag cta gat gct gac

Glu Gln Leu Arg Thr Leu Gly Val Leu Tyr Trp Lys Leu Asp Ala Asp

40

35

30

aag tat gag aac gat cca gaa cta gaa aag atc cgg aaa atg aga aac 196 Lys Tyr Glu Asn Asp Pro Glu Leu Glu Lys Ile Arg Lys Met Arg Asn 45 50 55 60	
tac tcc tgg atg gac atc atc acc ata tgc aaa gat aca ctt ccc aat 244 Tyr Ser Trp Met Asp Ile Ile Thr Ile Cys Lys Asp Thr Leu Pro Asn 65 70 75	
tac gag gag aag atc aag atg ttc ttt gag gaa cat ctg cat ctg gat 292 Tyr Glu Glu Lys Ile Lys Met Phe Phe Glu Glu His Leu His Leu Asp 80 85 90	
gag gag atc cgc tac atc ctg gag ggt agt ggg tac ttc gat gtc agg 340 Glu Glu Ile Arg Tyr Ile Leu Glu Gly Ser Gly Tyr Phe Asp Val Arg 95 100 105	
gac aag gag gac aag tgg atc cgg att tcc atg gag aag ggg gac atg 388 Asp Lys Glu Asp Lys Trp Ile Arg Ile Ser Met Glu Lys Gly Asp Met 110 115 120	
att act ctt cct gcc ggc atc tat cac cgc ttc aca ctg gac gag aag 436 Ile Thr Leu Pro Ala Gly Ile Tyr His Arg Phe Thr Leu Asp Glu Lys 125 130 135 140	
aat tac gtg aag gcc atg cgg ctg ttt gtt gga gaa cct gtg tgg aca 484 Asn Tyr Val Lys Ala Met Arg Leu Phe Val Gly Glu Pro Val Trp Thr 145 150 155	
cca tac aac cgg cca gct gac cat ttt gat gcc cgt gta cag tac atg 532 Pro Tyr Asn Arg Pro Ala Asp His Phe Asp Ala Arg Val Gln Tyr Met 160 165 170	
agt ttt ttg gaa gga aca gca tag cagtgctcct caaagagaaa actgcactgt 586 Ser Phe Leu Glu Gly Thr Ala 175 180	
gtgaatetee tgetgtggta accgaatgga aagttgetea ettttetget tttgtatttg 646	
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<211> 179
<212> PRT
<213> Mouse
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Ala Asp Pro Arg Lys Pro His Arg Ala Gln Pro Asp Arg Pro Val Ser
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Asp Lys Tyr Glu Asn Asp Pro Glu Leu Glu Lys Ile Arg Lys Met Arg
Asn Tyr Ser Trp Met Asp Ile Ile Thr Ile Cys Lys Asp Thr Leu Pro
                     70
                                          75
Asn Tyr Glu Glu Lys Ile Lys Met Phe Phe Glu Glu His Leu His Leu
Asp Glu Glu Ile Arg Tyr Ile Leu Glu Gly Ser Gly Tyr Phe Asp Val
                                 105
Arg Asp Lys Glu Asp Lys Trp Ile Arg Ile Ser Met Glu Lys Gly Asp
Met Ile Thr Leu Pro Ala Gly Ile Tyr His Arg Phe Thr Leu Asp Glu
                        135
Lys Asn Tyr Val Lys Ala Met Arg Leu Phe Val Gly Glu Pro Val Trp
145
                    150
Thr Pro Tyr Asn Arg Pro Ala Asp His Phe Asp Ala Arg Val Gln Tyr
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                                     170
Met Ser Phe Leu Glu Gly Thr Ala
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Met Ser Val Phe Glu Ala

5

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														ccc Pro		197
														atc Ile		245
														aaa Lys 85		293
														att Ile		341
gaa Glu	gga Gly	tcc Ser 105	tct Ser	tat Tyr	ttt Phe	gat Asp	gtg Val 110	cgg Arg	gac Asp	gaa Glu	ggc Gly	gac Asp 115	cgc Arg	tgg Trp	atc Ile	389
														gly ggg		437
														atg Met		485
														gcc Ala 165		533
							tac Tyr							tcc Ser	tga	581
aatg	jcctg	gat g	ggat	tgat	t ta	gtgc	tgag	, aat	caga	ctc	tgcg	gtgo	ect 1	tanac	agaca	641
ngca	ıgcaa	ıta g	rtaga	ıgcta	ıa ca	itgto	atta	ctt	agto	atc	aaga	ıcaca	icc 1	tgata	ıtaaag	701

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Gln Leu Glu His Ile Gly Val Phe His Trp Lys Leu Asn Ala Asp Ile
                             40
Tyr Glu Asn Asp Pro Glu Leu Gln Lys Ile Arg Glu Glu Lys Gly Tyr
Ser Phe Met Asp Ile Ile Thr Ile His Pro Asp Lys Leu Pro Asp Tyr
                     70
                                         75
Gln Asn Lys Leu Lys Met Phe Tyr Glu Glu His Leu His Leu Asp Asp
                 85
                                      90
Glu Ile Arg Tyr Ile Leu Glu Gly Ser Ser Tyr Phe Asp Val Arg Asp
                                105
Glu Gly Asp Arg Trp Ile Arg Ile Ala Val Ser Lys Gly Asp Leu Ile
                            120
Thr Leu Pro Ala Gly Ile Tyr His Arg Phe Thr Val Asp Glu Ser Asn
                        135
Tyr Thr Lys Ala Met Arg Leu Phe Val Gly Glu Pro Val Trp Lys Ala
                    150
                                        155
Tyr Asn Arg Pro Ala Asp Asp Phe Asp Ile Arg Lys Glu Tyr Val Asn
                                    170
Ser Leu Gly Ser Ser
            180
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